NATURAL RESOURCE TECHNOLOGY
ENVIRONMENTAL CONSULTANTS

234 W. FLORIDA STREET, FIFTH FLOOR
MILWAUKEE, WISCONSIN 53204
(P) 414.837.3607
(F) 414.837.3608

Report:	**Weekly Progress Report**
Project:	**Former North Plant MGP Site Removal Action Construction Waukegan, Illinois**
Date:	June 11, 2014
Prepared By:	Natural Resource Technology, Inc. Andrew Millspaugh, EIT Glenn Luke, PE
Submitted To:	Integrys Business Support, LLC Naren M. Prasad, PE
Activity Period:	June 2, 2014 through June 7, 2014

Natural Resource Technology, Inc. Personnel on Site

- Andrew Millspaugh, **Field Engineer**
- Dan Vachon, **Field Technician**
- Bob Woodruff, **Field Engineer**
- Glenn Luke, **Project Manager**
- Todd Lewis, **Construction Manager**

USEPA Personnel on Site

- Fernando Monterey, **OTIE**

Integrys/North Shore Gas Personnel on Site

- None

Subcontractors on Site

- Geo-Solutions, Inc. (GSI), **Earthwork, In Situ Solidification/Stabilization**
- James Anderson Co., **Designated Erosion Control Inspector**

Others

- Burns & McDonnell, **Perimeter Air Monitoring**

Visitors

- None

This report summarizes field activities performed by NRT, in addition to NRT's subcontractors, on behalf of IBS at the former North Plant MGP Site Time Critical Removal Action:

Site Activities

Removal Action Totals:

- Direct Disposal (Soil and Debris) through 6/7/14: 54,632.40 Tons
- In Situ Solidification/Stabilization (ISS) through 6/7/14: 242,025.34 Cubic Yards

NRT

- Managed site security and construction activities with IBS, GSI, WMI, and Burns & McDonnell.
- Facilitated and participated in daily safety meetings to evaluate potential safety concerns for the day's planned construction activities.
- Management and oversight of GSI's construction efforts throughout the week.
- Management and oversight of GSI during full-scale ISS construction in Removal Action Areas A and B with 12% reagent addition.
- Coordination and scheduling of disposal trucks with WMI and GSI.
- Issued truck tracking forms and documented 30 loads (545.55 tons) of soil and debris for disposal at Waste Management's Countryside Landfill in Grayslake, IL (Countryside Landfill).
- Prepared Construction Quality Assurance (CQA) samples from full-scale ISS (11 samples) for unconfined compressive strength (UCS) (ASTM D1633) and hydraulic conductivity (ASTM D5084) laboratory testing by Timely Engineering Soil Tests (T.E.S.T.). Test results to be compared to ISS performance goals established in the Removal Action Work Plant (RAWP).
- Received and reviewed ISS CQA sample test results for unconfined compressive strength (UCS) (ASTM D1633) and hydraulic conductivity (ASTM D5084). Laboratory testing is completed by Timely Engineering Soil Tests (T.E.S.T.). Test results are compiled and compared to the ISS performance goals established in the Removal Action Work Plan (RAWP).
- Construction survey verification of ISS column locations and elevations, pertinent site features, Removal Action Areas, historical foundations, etc.
- Accompanied James Anderson Co. during a weekly erosion control inspection on Thursday (6/5).
- Monitored site conditions for traffic flow, fugitive dust, odors, and general overall safety.
- Conducted periodic worker health and safety air monitoring in the work zone.
- Responded to local odor complaints by implementing additional fugitive emission controls including additional Rusmar odor control foam, additional covering of inactive stockpiles, mobilization and setup of an odor control perimeter misting system, and sequencing of work to minimize material handling.

Geo-Solutions Inc.

- Continued full-scale ISS construction in Removal Action Areas A and B with 12% reagent addition. 9,082.85 cubic yards of ISS was completed.
- Received 38 loads of ground granulated blast furnace slag (GGBFS) and 15 loads of Portland cement for full-scale ISS construction.
- Loaded 545.55 tons (30 loads) of soil and debris for direct disposal at Countryside Landfill.

- Implemented fugitive emission controls during shallow soil excavation, subsurface structure demolition and removal, and offsite trucking. Emission controls include water for dust suppression, Rusmar foam for odor and VOC emissions, and stockpile covering with scrim reinforced plastic.
- Implemented additional fugitive emission controls including additional Rusmar odor control foam, additional covering of inactive stockpiles, and sequencing of work to minimize material handling in response to local odor complaints.
- Maintained and administered site exclusion zones, decontamination areas, and site health and safety procedures.
- Conducted worker health and safety air monitoring in the work (exclusion) zone.

James Anderson Company

- Completed a weekly erosion control inspection on Thursday (6/5). The inspections were performed in accordance with the Watershed Development Permit and the general National Pollutant Discharge Elimination System (NPDES) permit.

Changes to Scope of Work

- None

Open/Outstanding Items

- None

Work planned for the week of June 9, 2014 through June 14, 2014

- Perform perimeter Air Monitoring.
- Full-scale ISS construction in Removal Action Areas A and B with the Manitowoc 4000w and Delmag RH-28.
- Continue ISS construction in the area of the Former Waukegan Tar Pit on NSG property.
- Receive and evaluate ISS CQA data.
- Load surface soil and debris for disposal at WMI's Countryside Landfill.

A Weekly Progress Report will be issued throughout the duration of field activities for this Time Critical Removal Action. A written report summarizing the results of the Removal Action will be provided following completion of all field activities. A summary of the perimeter air monitoring activities, as detailed by the Air Monitoring Contractor, is included with this report as Attachment 1.

Please contact us if you have any questions.

Sincerely,
NATURAL RESOURCE TECHNOLOGY, INC.

Glenn Luke, PE
Environmental Engineer

Attachment 1: Burns and McDonnell Weekly Air Monitoring Report

Field Photos:

Photo 1: Site overview of covered stockpiles and ISS grout batch plant.

Direction: West

Photo Date: 6/5/14

Photo Taken By: AMM

Photo 2: ISS construction along the southern limit of Removal Action Area B.

Direction: Southeast

Photo Date: 6/5/14

Photo Taken By: AMM

Photo 3: Remixing of seven ISS columns in Removal Action Area A that were removed due to not meeting project performance goals.

Direction: South

Photo Date: 6/5/14

Photo Taken By: AMM

ATTACHMENT 1

1431 Opus Place, Suite 400
Downers Grove, Illinois 60515

Record of Weekly Ambient Air Monitoring Activities
Former North Plant MGP Site

Date Period: June 2 - 8, 2014

Burns & McDonnell is performing ambient air monitoring and sampling along the site perimeter at the Former North Plant MGP Site in accordance with the *North Plant MGP Site – Removal Action Work Plan (RAWP)*. We are completing real time ambient air monitoring 24-hours a day, seven days a week at seven locations (AMS-1 through AMS-7) along the Site perimeter. We are collecting 24-hour perimeter air samples at upwind and downwind locations at the Air Monitoring Stations on a routine basis at frequencies and quantities outlined in the RAWP. Burns & McDonnell is also performing real-time handheld and observation monitoring as described in the RAWP. This weekly report describes air monitoring activities for the week of June 2 – 8, 2014 and includes:

Tasks	Ambient Air Monitoring Activities
Sampling Activities Performed	A total of 9 SUMMA canister air samples including one duplicate air sample and 4 PUF air samples were collected and submitted to STAT Analysis for BTEX/Naphthalene and select PAH analyses, respectively.
BMcD Field Personnel	Ross Hartwick Josh Myers Jason Wuerch Emily Meyer
Equipment Deployed	AirLogics Air Monitoring Stations SUMMA canisters with 24-hour flow regulators PUF sampling systems Photo ionization detector (PID) TSI Dusttrak monitoring device

1431 Opus Place, Suite 400
Downers Grove, Illinois 60515

Figure 1: Site Map